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# SIXTH EDITION Organic Chemistry

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Prefa

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#### SEC. 20.4

The b the esters t the usual o Volati in the prepa irritating o acids.

Acetyl cl Propiony. n-Butyryl ( n-Valeryl ( Stearoyl cl Benzoyl cl p-Nitrober chloride 3,5-Dinitro chloride

Acetic anh Phthalic ar

## $20.4 - Nu_{\rm t}$

Before v outline certa individual fa Each de  $\mathsf{correspondin}$ acid by simpconversion OI has certain cl The deri carbonyl grou undergone by But by its pre these compou Here, to functions: (a) acidity of hyd (We shal 21.11-21.12 a

#### 20.2 Nomenclature

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The names of acid derivatives are taken in simple ways from either the common name or the IUPAC name of the corresponding carboxylic acid. For example:

### 20.3 Physical properties

Ethyl ethanoate

The presence of the C=O group makes the acid derivatives polar compounds I chlorides and apprehiment (T-11 200) have Acid chlorides and anhydrides (Table 20.1) and esters (Table 20.2, p. 769) have boiling points that are about the boiling points that are about the same as those of aldehydes or ketones of comparable molecular weight (see Sec. 19.2) comparable molecular weight (see Sec. 18.3). Amides (Table 20.1) have quite high boiling points because they are concluded. boiling points because they are capable of strong intermolecular hydrogen bonding.